

**Notice of Allowability**

Application No.

10/762,252

Applicant(s)

ANDO, MUNEKI

Examiner

Art Unit

LUN-YI LAO

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 1/23/2004 and the IDS filed 2/2/2006.

2. ☒ The allowed claim(s) is/are 1-9.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All b) ☐ Some\* c) ☐ None of the:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 2/3/2007.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 2/2/2006

4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_

### DETAILED ACTION

1. Figures 15-18 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Someya et al(5,091,784) teach an display device having double line scanning.

Masuda et al(6,107,983) teach a display device having a scanning drive circuit(210a) for scanning two line simultaneously(see figures 2 and 4).

Sakai et al(us 2001/0040537) teach a display device having a vertical filter(10)(see figure 21).

Ando(US 2004/0179031) teach a display device having a vertical filter(10)(see figure 14).

Hashimoto et al(5,388,081) teaches a two-dimensional noise filter circuit(see figures 1 and 3).

Carlson(4,602,273) teaches a display having a vertical filter providing zero response at  $1/2S$  spatial frequency.

Inoue et al(5,822,008) teach a display having a vertical filter(132) providing  $-6.9897\text{db}(10\log_{10}(0.6+0.4X\cos[(2\pi/525)X(525/2)]))$  response at  $1/2S(525/2)$  spatial frequency(see figures 4, 12 and 15).

Kwon(5,754,163) teaches an LCD display having a vertical filter(40).

Seigneret et al(6,970,207) teach frequency characteristics of a vertical filter(see figure 2).

Kondo et al(7,116,372) teach frequency characteristics of a vertical filter(see figure 3a-3d).

3. The following is an examiner's statement of reasons for allowance.

None of cited references teach an image signal processing apparatus comprises filter means(vertical filter 8) for performing, on received image data, signal processing for compensating for a reduction in resolution in a vertical scanning direction and for supplying resulting image data to a modulation circuit and a normalized vertical spatial frequency response characteristic of the filter means satisfies  $0\text{ dB} < G1 \leq 6\text{ dB}$  where  $G1$  is a gain at a spatial frequency corresponding to  $1/2$  of a vertical critical resolution of the display panel, with all other limitation cited in claims 1 and 7.

None of cited references teach an image signal processing apparatus comprises filter means(vertical filter 8) for performing, on received image data, signal processing for compensating for a reduction in resolution in a vertical scanning direction and for supplying resulting image data to a modulation circuit and a normalized vertical spatial

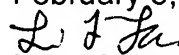
Art Unit: 2629

frequency response characteristic of the image display apparatus satisfies  $-3\text{dB}$   
 $<R1 \leq 3\text{ dB}$ , where R1 is a response at a spatial frequency corresponding to 1/2 of a  
vertical critical resolution of said display panel, with all other limitations cited in claims 3  
and 9.

Any comments considered necessary by applicant must be submitted no later  
than the payment of the issue fee and, to avoid processing delays, should preferably  
accompany the issue fee. Such submissions should be clearly labeled "Comments on  
Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the  
examiner should be directed to Lun-yi, Lao whose telephone number is (571) 272-7671.

February 3, 2007



Lun-yi Lao

Primary Examiner

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